

Figure 1

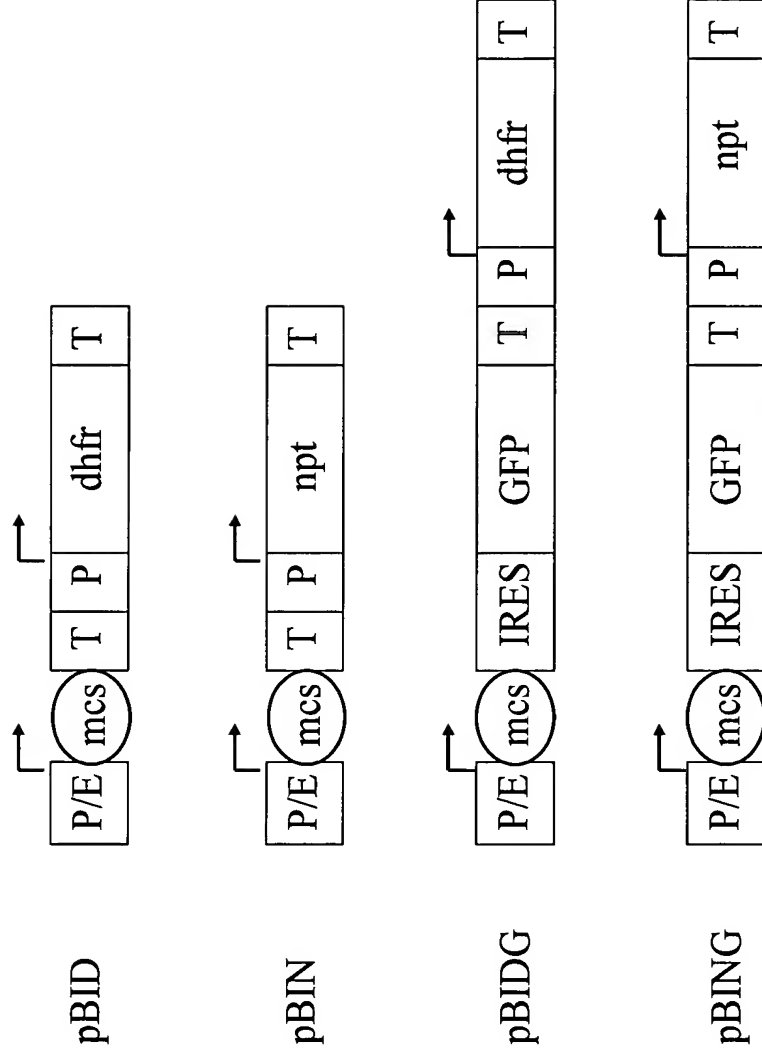


Figure 2A

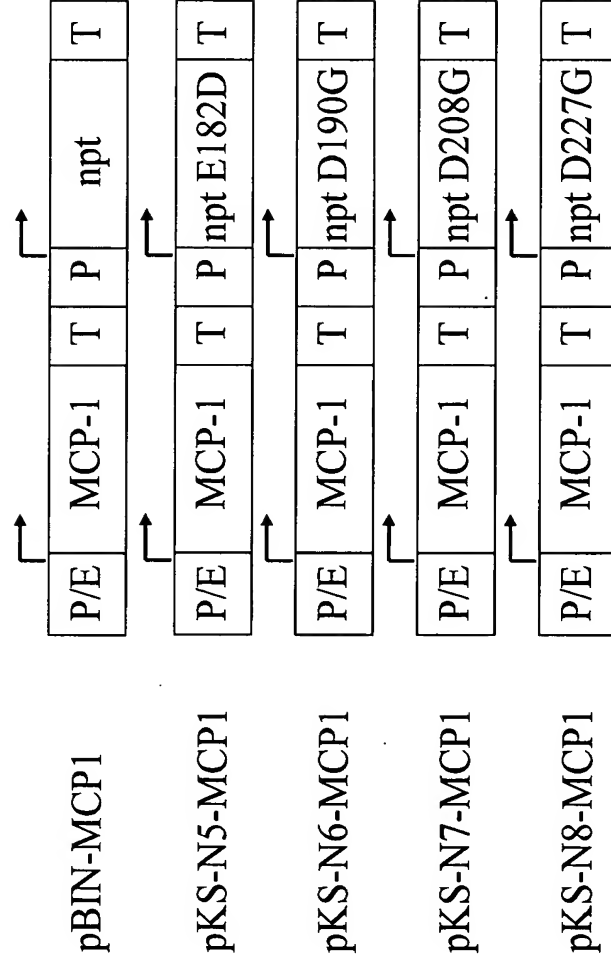


Figure 2B

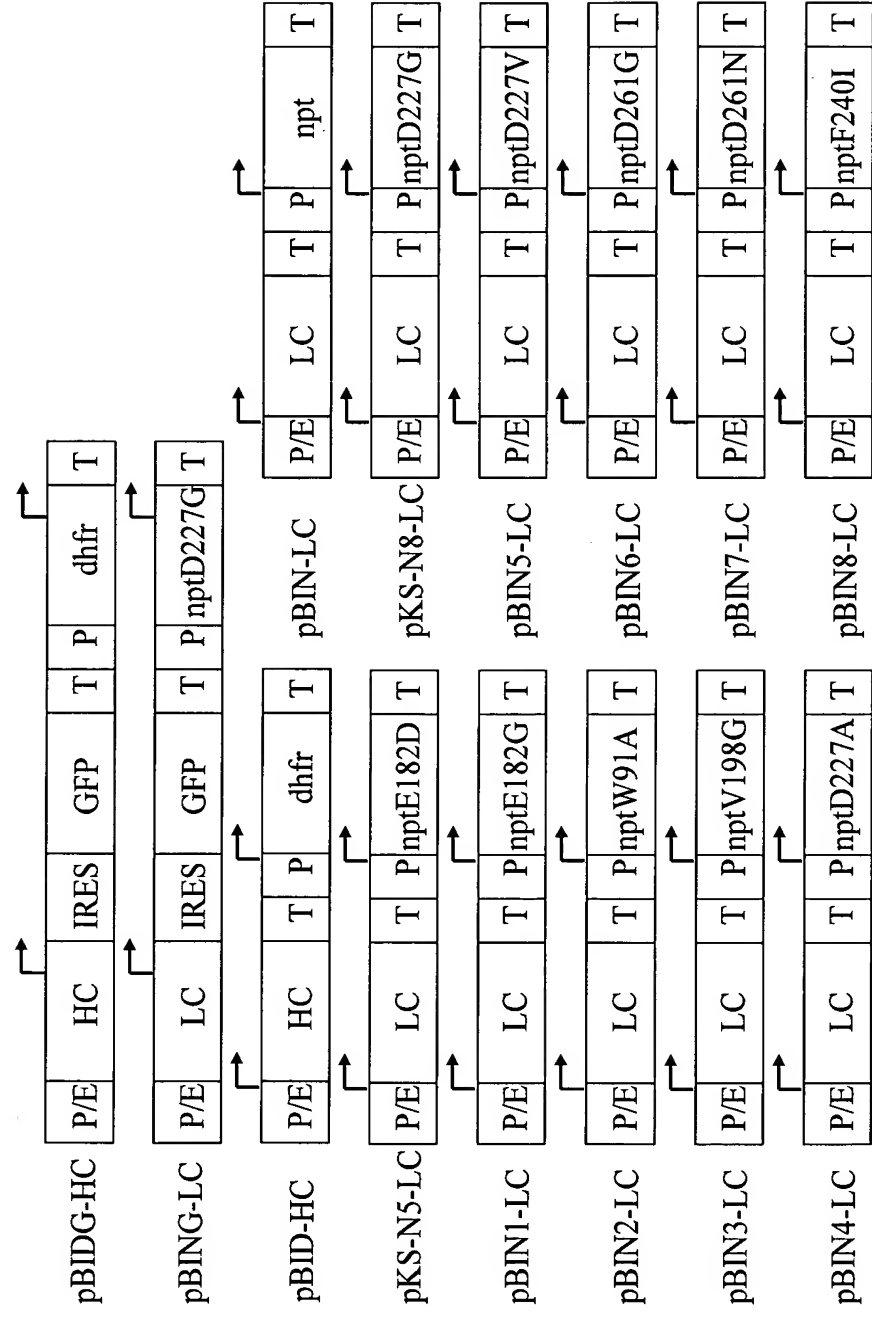


Figure 3

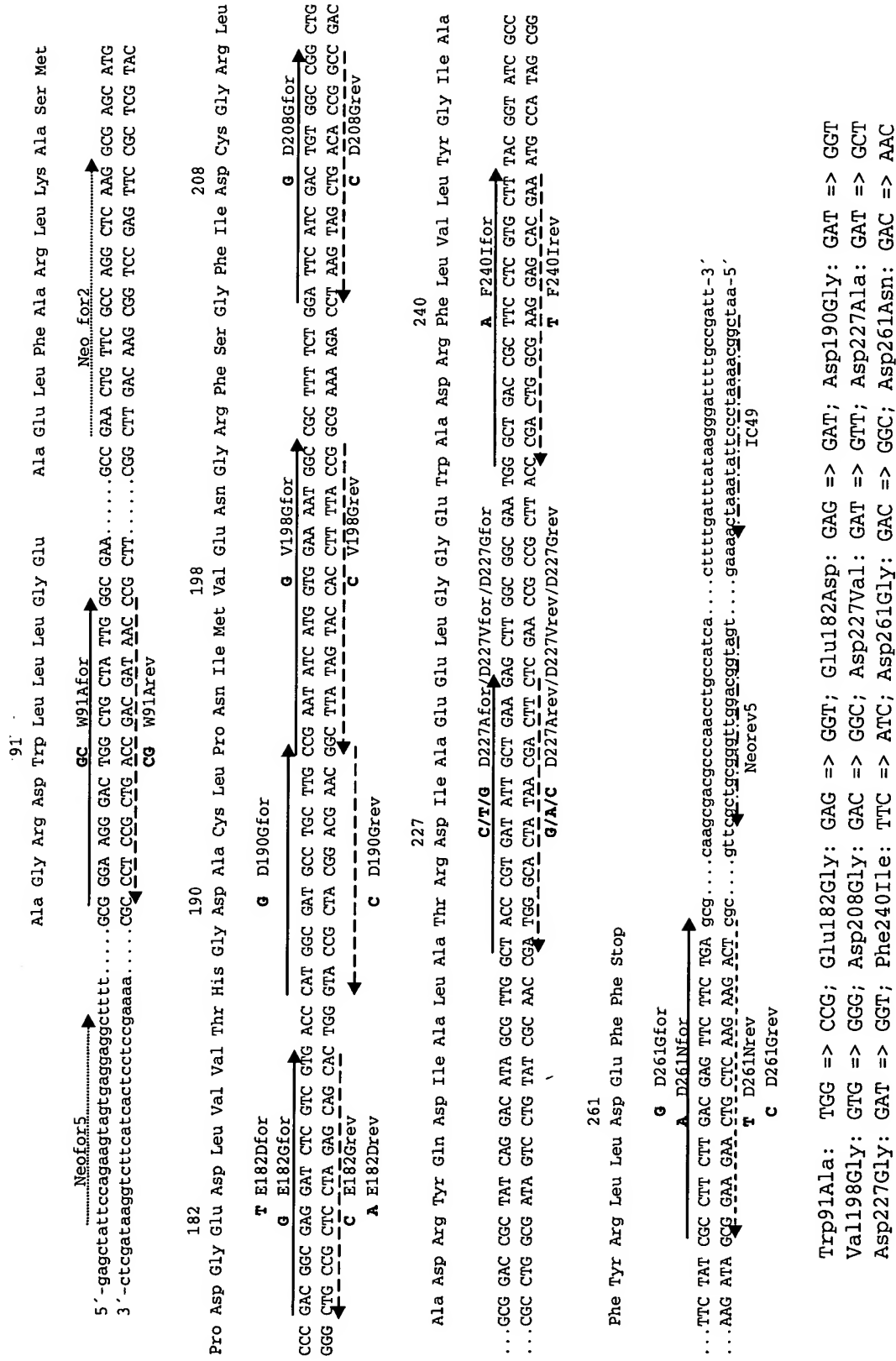


Figure 4

1 MIEQDGLHAG SPAAWVERLF GYDWAQQTIG CSDAAVFRLS AQGRPVLFVK
 51 TDLSGALNEL QDEAARLSWL ATTGVPCAAY LDVVTEAGRD WLLGEVPGQ
 101 DLLSSHLAPA EKVSIMADAM RRLHTLDPAT CFFDHOAKHR IERARTRMEA
 151 GLVDQDDLDE EHQLAPAEEL FARLKASMPD GEDLVVTHGD ACIPNIMVEN
 201 GRFSGFIDCG RLGVADRYQD IALATRDIAE ELGGEWADRF LVLYGIAAPD
 251 SQRIAFYRLL DEEF

91
 182 190 198
 208 227 240
 261

Motif 1
 Motif 2
 Motif 3

Figure 5

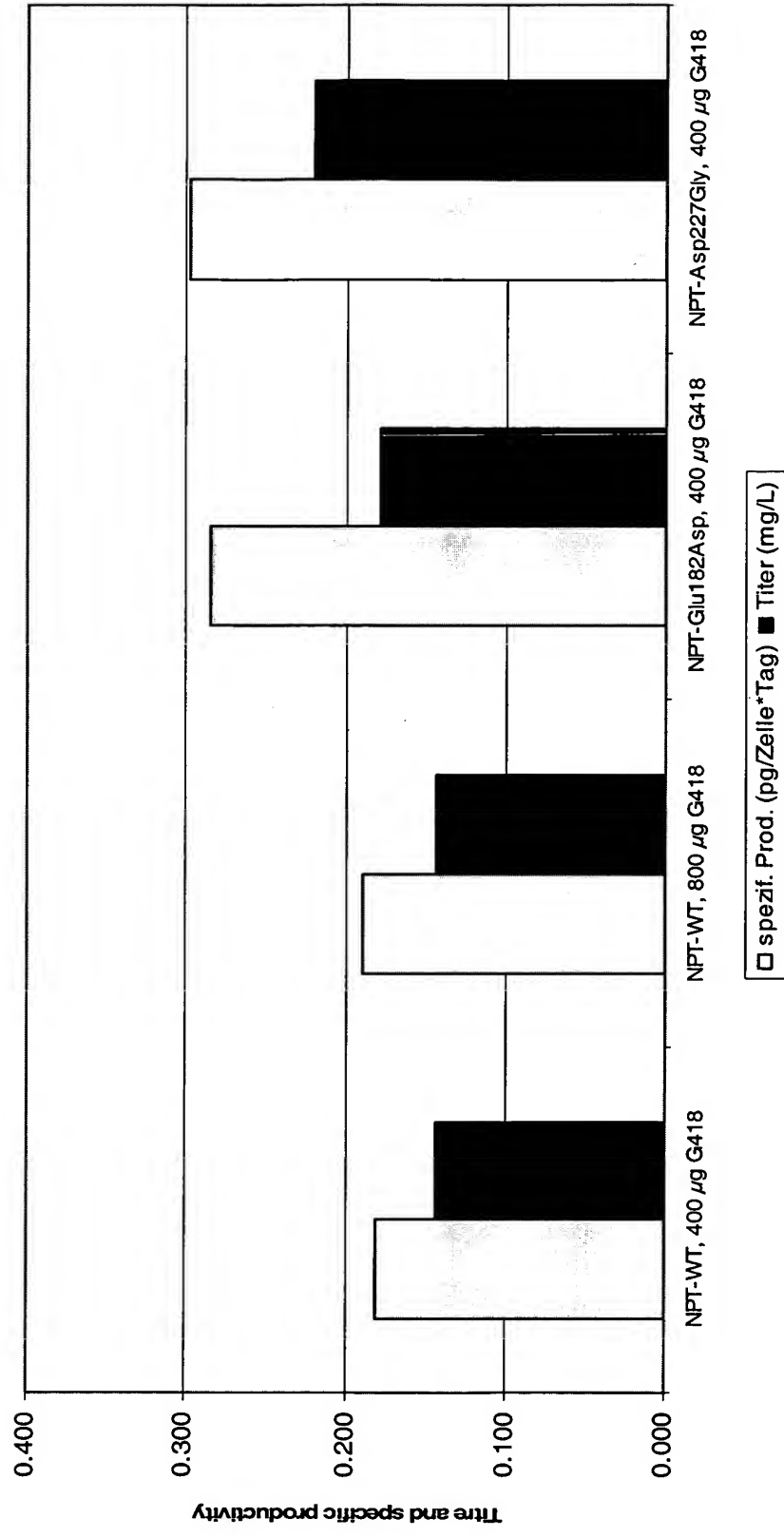
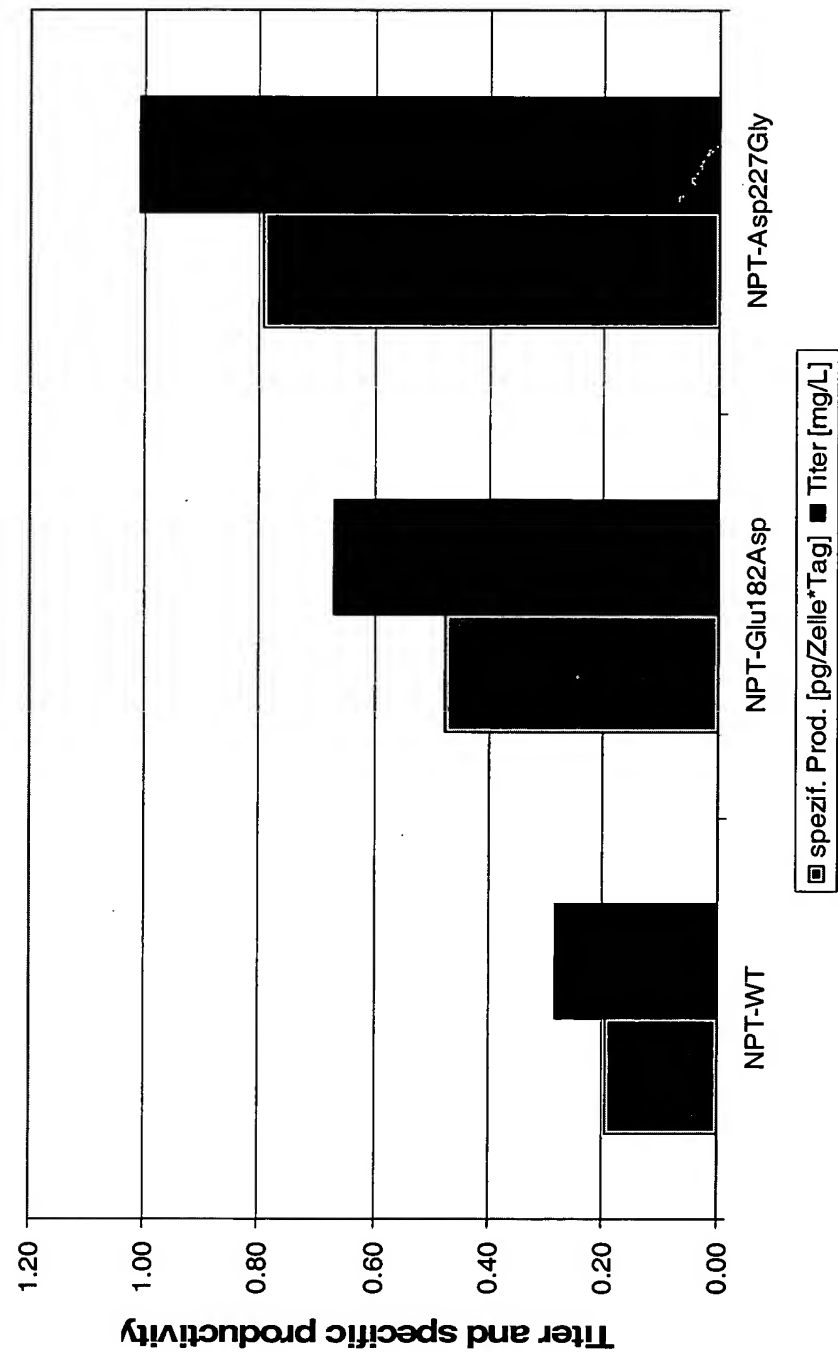


Figure 6A



Titre (relative)	1	2.4	3.6
spec. Prod. (rel.)	1	2.4	4.1

Figure 6B

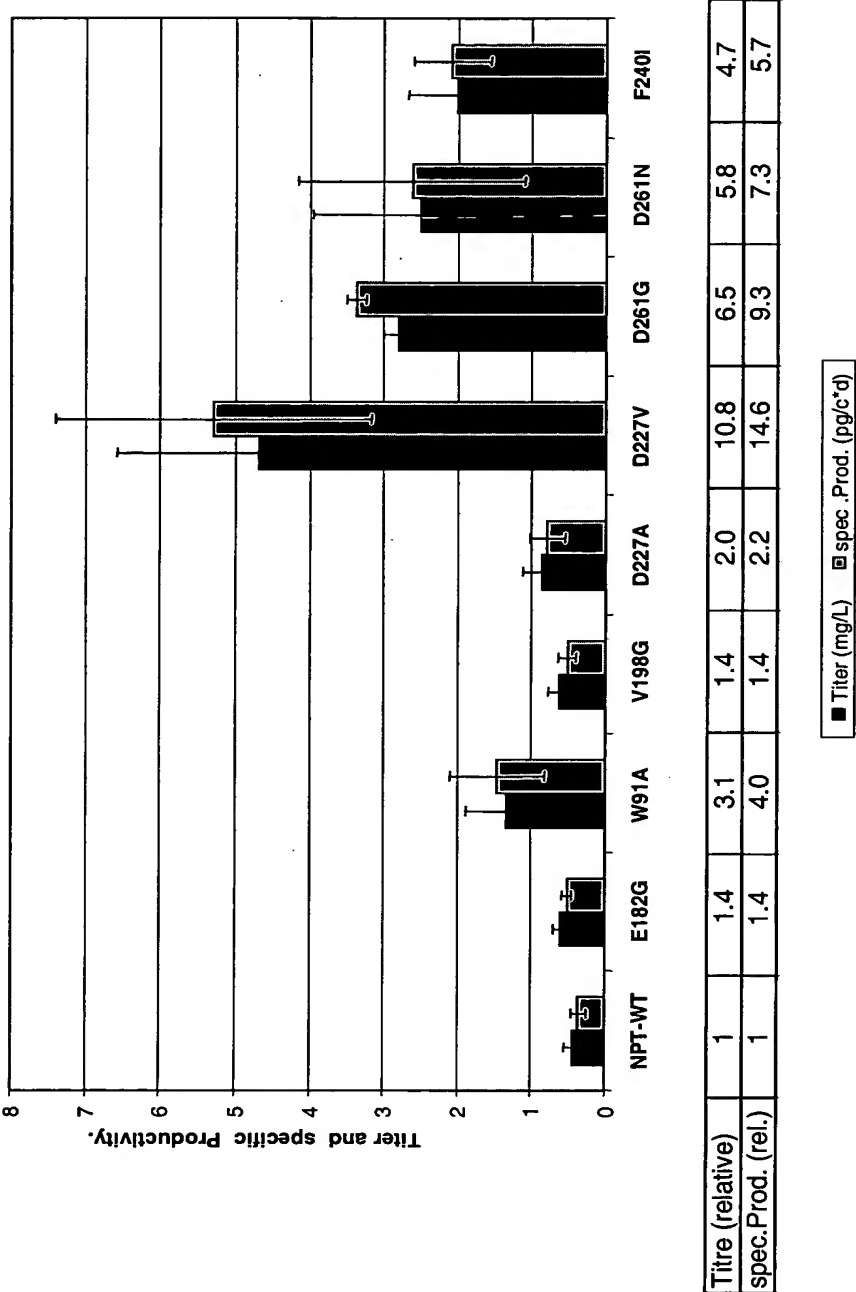


Figure 7

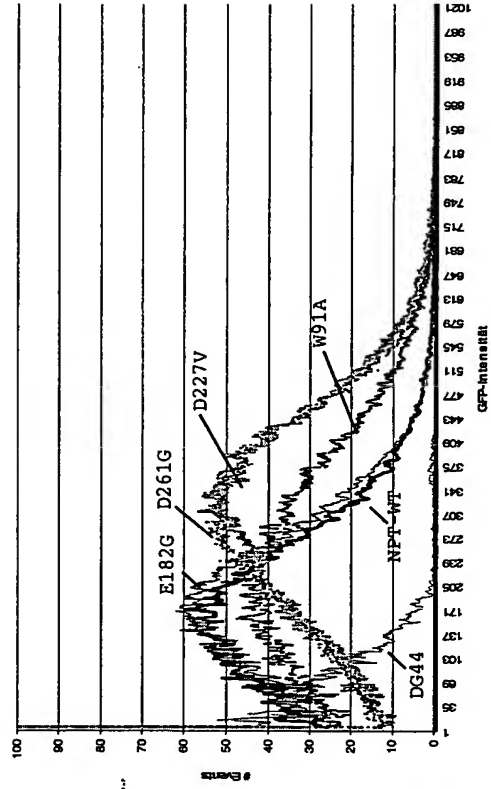
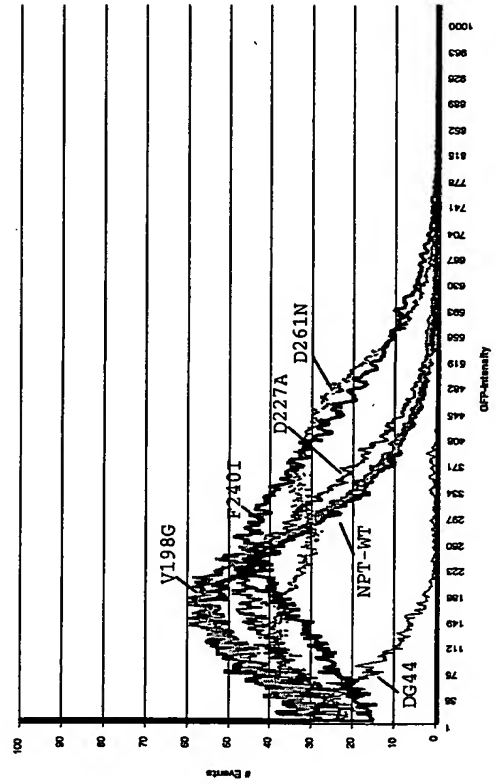
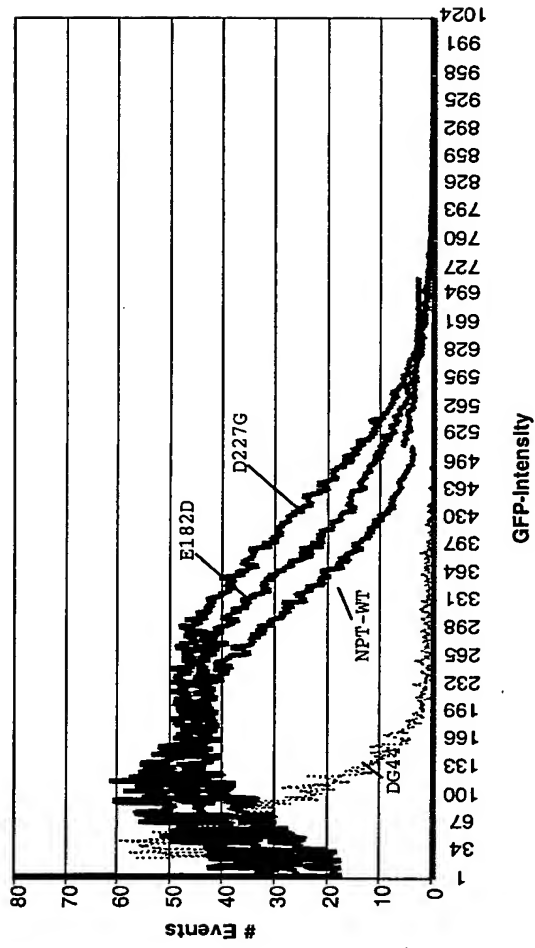


Figure 8

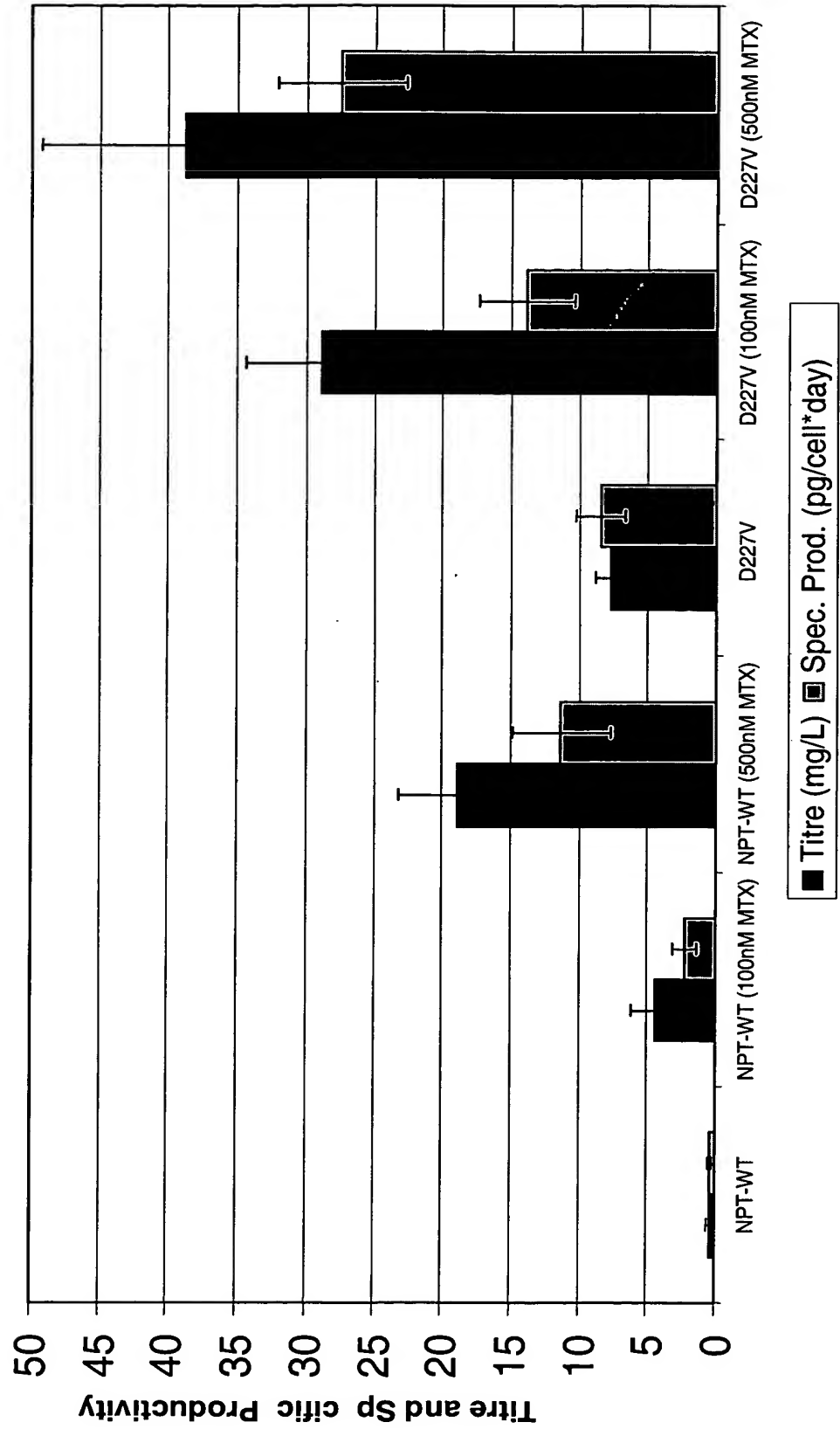
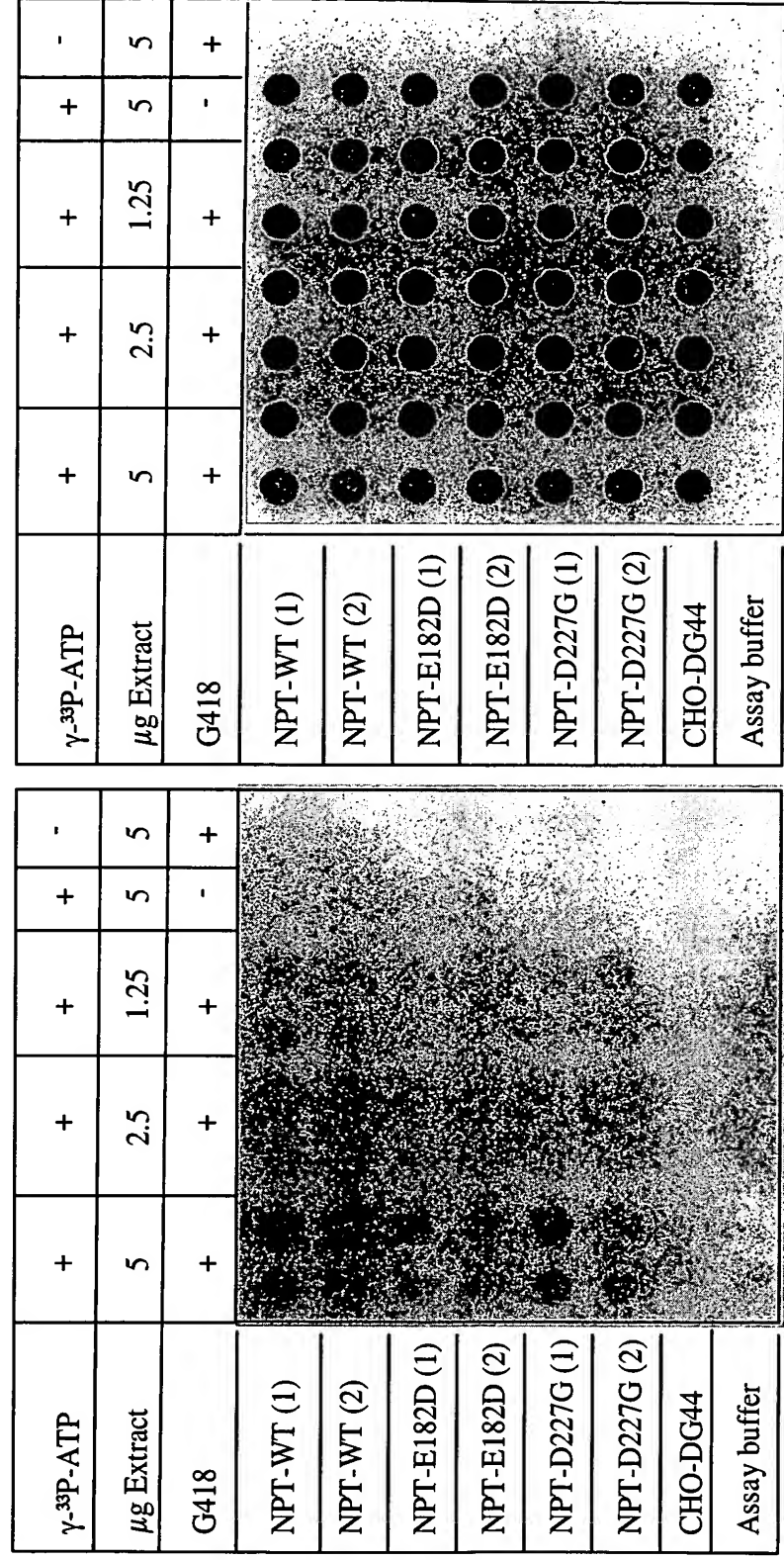


Figure 9A



Phosphocellulose

Nitrocellulose

Figure 9B

NPT-Variant	% Enzyme activity (WT-NPT = 100 %)
NPT-Wildtype	100.0
Trp91Ala	53.2
Glu182Gly	25.8
Glu182Asp	22.0
Val198Gly	61.9
Asp227Ala	26.9
Asp227Val	16.4
Asp227Gly	30.0
Phe240Ile	23.4
Asp261Gly	3.1
Asp261Asn	1.5

Figure 10

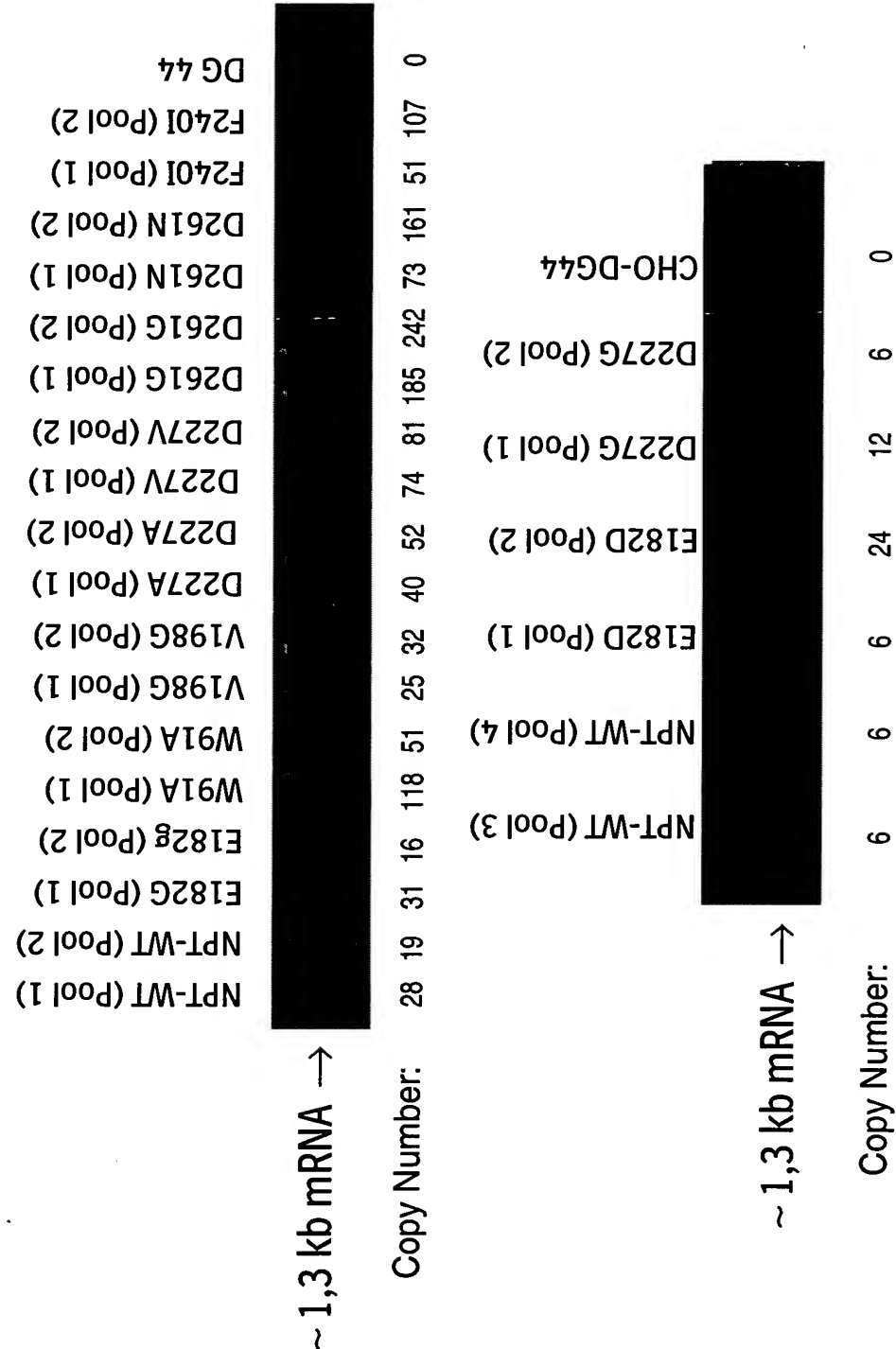


Figure 11

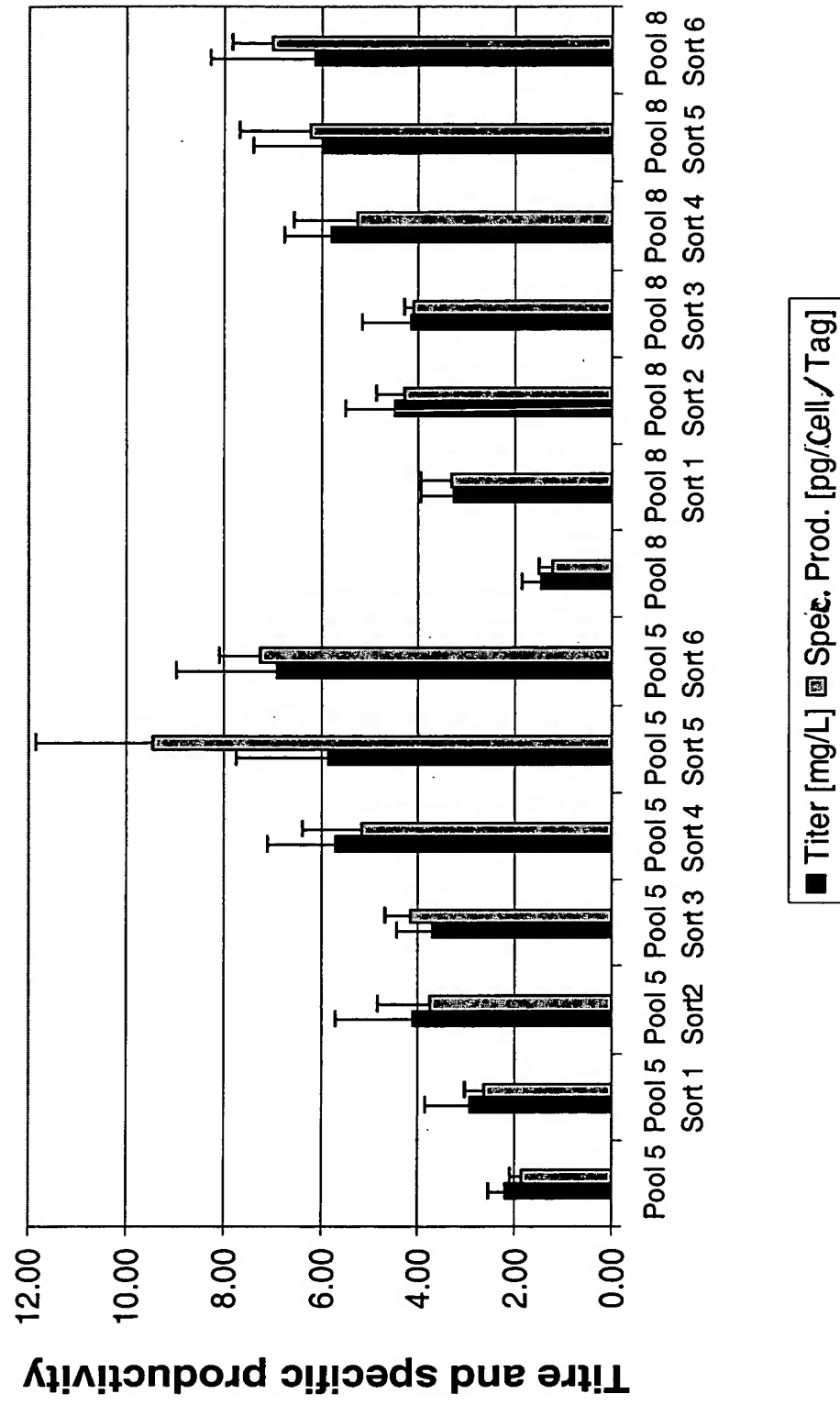


Figure 12

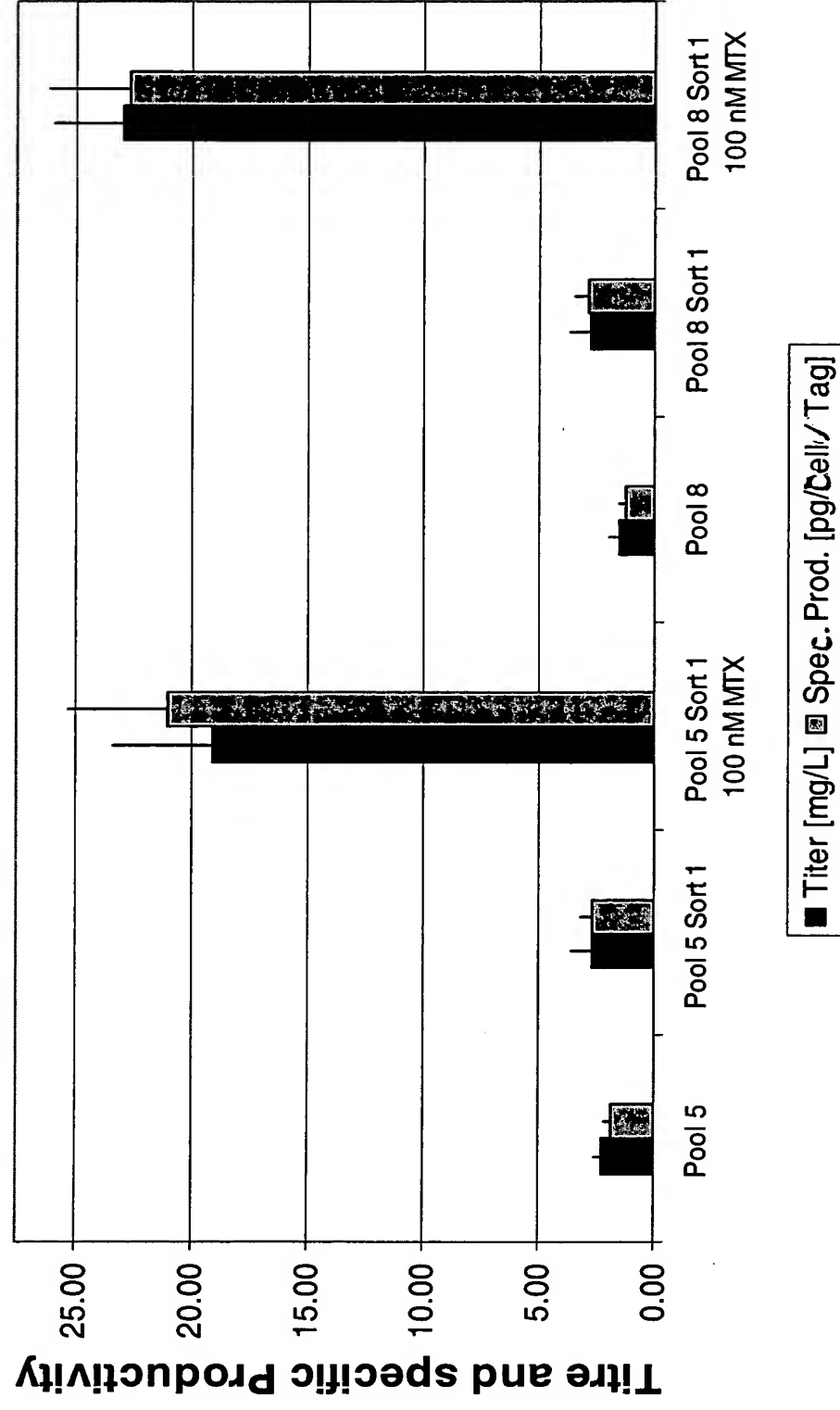


Figure 13

